

290-13.

# TYPICAL ELECTRICAL INSTALLATIONS



BUILDINGS OF THE NATIONAL EXPORT EXPOSITION (Philadelphia, 1899)  
Showing decorative electrical effects. Messrs. G. W. & W. D. Hewitt, Architects,  
Mr. John Birkinbine, Engineer.

**KELLER-PIKE COMPANY**  
**Electrical Engineers and Contractors**  
1213 RACE ST., PHILADELPHIA, PA.

AFTER an active experience, covering a period of nearly twenty years, in the work of Electrical Construction, we are enabled to present a comprehensive list of "Typical Installations".

This is done not only to indicate the extent of the field we have covered, but also to assist prospective clients in ascertaining the grade of our work by suggesting, for reference, the names of Owners, Engineers and Architects of some of our past installations.

In the list of Typical Installations given in the following pages we have selected a few representative examples of the various classes of work which we have carried out, but these, and the accompanying cuts, represent only a small fraction of the total. Should a more complete list of any particular class of work be desired, we will gladly furnish the same.



GIRARD TRUST BUILDING, PHILADELPHIA, PA.

Messrs. McKim, Mead and White, and Mr. Allen Evans, Architects. Messrs. Francis Bros. & Jellett, Engineers. The electrical equipment in this building includes a three-wire generating plant for lighting and power, intercommunicating and public telephones, signal systems, telegraph and messenger service, watchman's clocks, telautograph, etc.



## TYPICAL INSTALLATIONS

### BANK BUILDINGS

Corn Exchange National Bank, Philadelphia, Pa.  
Girard Trust Company, Philadelphia, Pa.  
Hazleton National Bank, Hazleton, Pa.  
Edward B. Smith & Company, Philadelphia, Pa.  
Western Saving Fund Society, Philadelphia, Pa.



CHURCH HOUSE OF THE DIOCESE OF PENNSYLVANIA

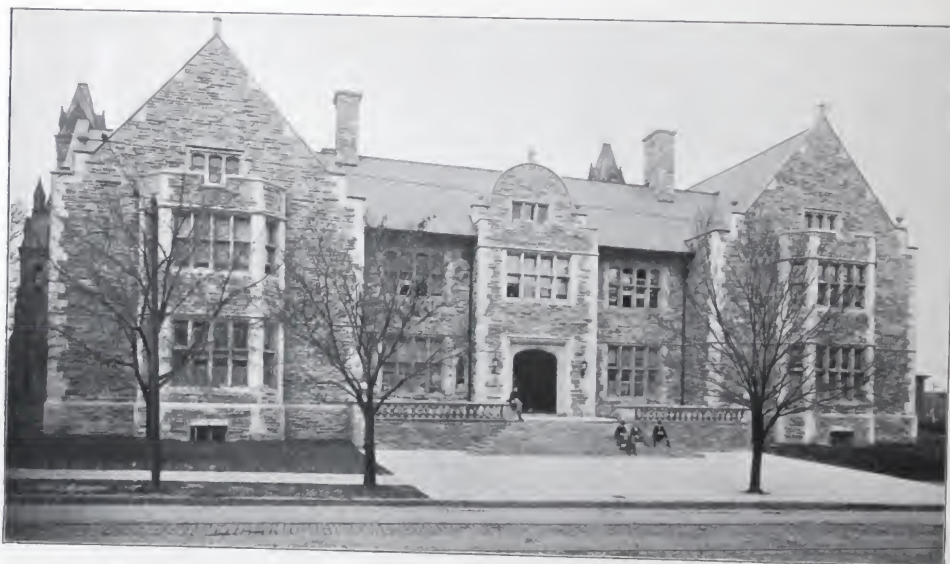
Messrs. Bailey and Truscott, Architects. Messrs. M. R. Muckle, Jr. & Co., Engineers. One of a very few buildings in which the lighting conductors are encased in brass armored conduits, a method which is now obsolete.

### CHURCHES

Calvary Presbyterian, Philadelphia, Pa.  
Church of the Redeemer, Bryn Mawr, Pa.  
St. James Roman Catholic, Baltimore, Md.  
St. James Episcopal, Philadelphia, Pa.  
Synagogue, Adath Jeshurun, Philadelphia, Pa.

## CLUB HOUSES

Houston Club, University of Pennsylvania, Philadelphia, Pa.  
Mask & Wig Club, Philadelphia, Pa.  
Philadelphia Club, Philadelphia, Pa.  
Philadelphia Cricket Club, St. Martins, Pa.  
Union League, Philadelphia, Pa.



HOUSTON HALL, UNIVERSITY OF PENNSYLVANIA

Mr. William Hays, Architect. Professor H. W. Spangler, Engineer. One of the older University Buildings in which the wiring is carried in flexible, non-metallic conduits throughout—a method now rarely used.

## COUNTRY RESIDENCES *and* ESTATES

Mr. Samuel T. Bodine, Villa Nova, Pa.  
Col. H. A. Du Pont, Winterthur, Del.  
Mr. Horatio G. Lloyd, Haverford, Pa.  
Mr. Percival Roberts, Jr., Narberth, Pa.  
Mr. P. M. Sharpless, West Chester, Pa.



"PENNSHURST" ESTATE, NARBERTH, PA.

Percival Roberts, Jr., Esq., Owner. Messrs. Peabody & Stearns, Architects. The residence and other buildings of the estate are supplied with electric light and power from an isolated plant, located about half a mile from the house. The plant contains a forty (40) horse power gasoline engine, two 220 Volt generators, and a storage battery of 90,000 Watt-hour capacity.



## CITY RESIDENCES

Hon. Perry Belmont, Washington, D. C.  
Mr. Eckley B. Coxe, Jr., Philadelphia, Pa.  
Mr. Theodore W. Cramp, Philadelphia, Pa.  
Mr. Robert D. Jenks, Philadelphia, Pa.  
Mr. S. P. Wetherill, Philadelphia, Pa.



CRANE INSTALLATION IN THE BALSTOWN YARDS OF THE  
LEHIGH COAL AND NAVIGATION COMPANY

These cranes are operated by 220 Volt, 2-phase induction motors, and are used for conveying Coal from River Barges to the storage yards. Cut shows the four copper conductor rails, and the contact shoes under the Crane.

## CRANE and TROLLEY WORK

Dill & Collins, Philadelphia, Pa.  
Lehigh Coal & Navigation Co., Philadelphia, Pa.  
McClintic-Marshall Construction Co., Philadelphia, Pa.  
Midvale Steel Co., Nicetown, Pa.  
Philadelphia & Reading Railway Co., Philadelphia, Pa.

## HOMES

Children's Seashore, Chelsea, N. J.  
Light House, Philadelphia, Pa.  
Methodist, Bala, Pa.  
Odd Fellows Orphanage, Philadelphia, Pa.  
Widener Memorial, Longport, N. J.



STATE, WAR AND NAVY BUILDING, WASHINGTON, D. C.

Messrs. Marks & Woodwell, Engineers. The system of electrical distribution was entirely re-installed in 1911, demonstrating the feasibility of concealed conduit construction in an old building, with very little resultant damage to the interior finish.

## HOSPITALS

Children's Homeopathic, Philadelphia, Pa.  
Friends' Asylum, Frankford, Pa.  
Garretson, Philadelphia, Pa.  
Medico-Chirurgical, Philadelphia, Pa.  
Pennsylvania, Philadelphia, Pa.



## HOTELS and APARTMENTS

Bartram Apartments, Philadelphia, Pa.  
Dennis, Atlantic City, N. J.  
Manheim Apartments, Philadelphia, Pa.  
Ritz-Carlton, Philadelphia, Pa.  
Traymore, Atlantic City, N. J.



CROZER BUILDING, PHILADELPHIA, PA.

Messrs. Frank Miles Day & Bro., Architects. Messrs. Francis Bros. & Jellett, Engineers. This is one of, if not the first building in Philadelphia, in which the conductors for the electrical distributing system are carried in iron armored conduits. This method is now universally used for buildings of this character.

## INDUSTRIAL WORKS

American Cigar Company, Philadelphia, Pa.  
American Ice Company, Philadelphia, Pa.  
Harrison Bros. & Co., Philadelphia, Pa.  
Jeanesville Iron Works, Hazleton, Pa.  
Vulcanite Portland Cement Works, Phillipsburg, N. J.

## LIBRARIES

Carnegie, of Philadelphia, Pa.:—Holmesburg, Tacony, Port Richmond, Spring Garden, Vernon Park and West Philada. Branches.  
Pennsylvania State, Harrisburg, Pa.  
State, and Navy, Washington, D. C.



COLLEGE OF PHYSICIANS, PHILADELPHIA, PA.  
Messrs. Cope & Stewardson, Architects. Mr. Richard Gilpin, Engineer.

## MILLS and FACTORIES

Grellett Collins Building, Philadelphia, Pa.  
Dill & Collins, Philadelphia, Pa.  
Stephen Greene Co., Philadelphia, Pa.  
Hooper Sons Mfg. Co., Philadelphia, Pa.  
Schutte and Koerting Co., Philadelphia, Pa.



HOOPER SONS MANUFACTURING COMPANY, PHILADELPHIA, PA.

All of the machinery in this plant is driven by electric motors in small units. The cut shows some of the tables, about 100 feet in length, each driven by a motor with silent chain transmission.



## MOTOR INSTALLATIONS

College of Physicians, Philadelphia, Pa.  
Harrison Bros. & Co., Philadelphia, Pa.  
Hooper Sons Mfg. Co., Philadelphia, Pa.  
United States Mint, Philadelphia, Pa.  
Vulcanite Portland Cement Co., Phillipsburg, Pa.



"PIKING" POLES FOR THE STREET LIGHTING SYSTEM OF NORRISTOWN, PA.

Dr. W. A. Drysdale, Engineer. Cut shows the method of erecting wooden poles by means of a "dead man" and pike poles.

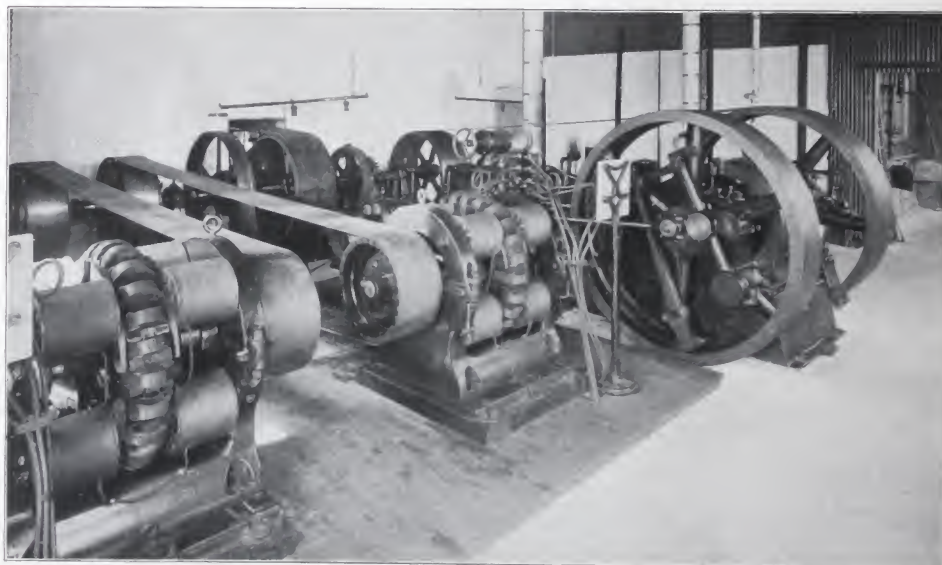


ELECTRIC LIGHTING PLANT OF THE "WIGWAM", WAWA, PA.

This is a typical low voltage installation, designed for residence lighting. Current is supplied at thirty (30) Volts from a small gasoline engine, dynamo and storage battery of 16 cells. The cost of lighting residences by this method is reduced to a minimum. (Full description, with cost of installation and operation, is contained in our Bulletin L-V-I.)

## OFFICE and STORE BUILDINGS

Baker Building, Philadelphia, Pa.  
City Trust Building, Philadelphia, Pa.  
Crozer Building, Philadelphia, Pa.  
Fritz & LaRue, Philadelphia, Pa.  
Gimbel Bros., Philadelphia, Pa.



ELECTRIC LIGHTING PLANT OF THE BOROUGH OF NORRISTOWN, PA.

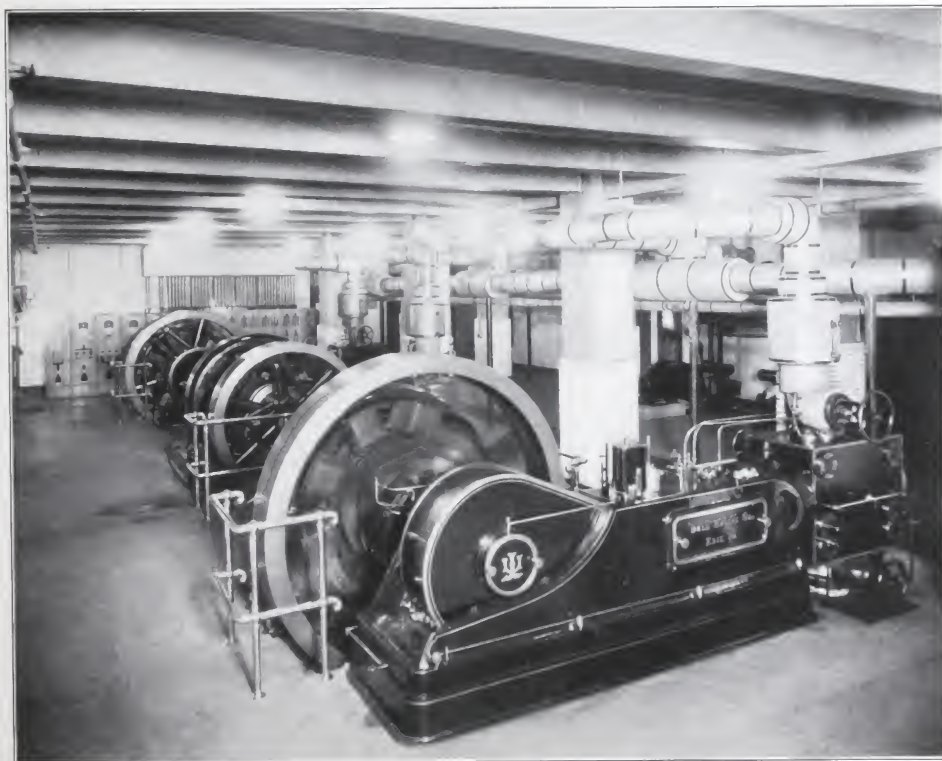
Dr. W. A. Drysdale, Engineer. The series arc and incandescent generators are driven from a countershaft which receives its power from turbine water wheels, supplemented by a high speed steam-engine. The link-belt passing through the rear wall connects the turbine wheels to the countershaft.

## OVERHEAD CONSTRUCTION

Borough of Norristown, Pa.  
Coatesville Telephone Co., Coatesville, Pa.  
Harrison Bros. & Co., Philadelphia, Pa.  
Interstate T. & T. Co., Fort Washington to Allentown, Pa.  
Percival Roberts, Jr., Narberth, Pa.

## PICTURE LIGHTING

Mr. George W. Elkins, Elkins Park, Pa.  
Mr. John H. McFadden, Philadelphia, Pa.  
Mr. J. D. McIlhenny, Philadelphia, Pa.  
Racquet Club, Philadelphia, Pa.  
Mr. E. T. Stotesbury, Philadelphia, Pa.



ENGINE ROOM OF THE UNION LEAGUE CLUB, PHILADELPHIA, PA.

Mr. Horace Trumbauer, Architect. Messrs. Francis Bros. & Jellett, Engineers. The plant consists of three direct connected units having a total capacity of 400 Kilowatts at 110 Volts.

## POWER PLANTS

Borough of Norristown, Pa.  
Girard Trust Co., Philadelphia, Pa.  
Gymnasium, University of Pennsylvania, Philadelphia, Pa.  
Philadelphia & Reading Railway Ferries, Philadelphia, Pa.  
Union League Club, Philadelphia, Pa.



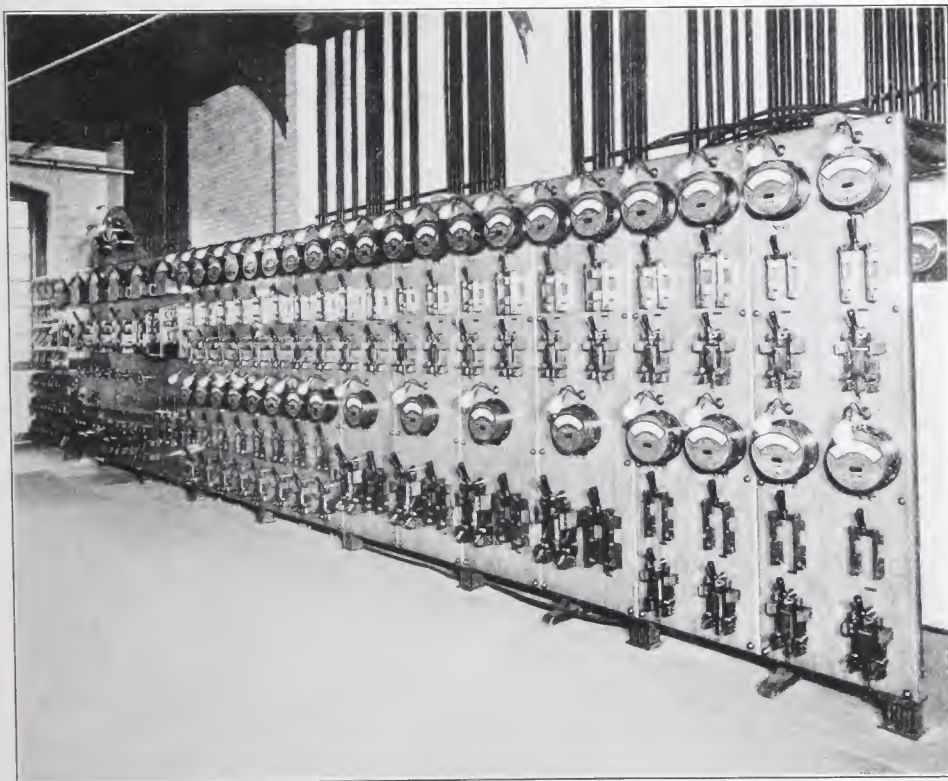


#### GYMNASIUM OF THE UNIVERSITY OF PENNSYLVANIA

Messrs. Frank Miles Day & Brother, Architects. Mr. Chas. A. Darrach, Engineer. This Building, which stands at the entrance of Franklin (Athletic) Field, is one of the few University Buildings which is equipped with an isolated plant, for electric lighting and power.

## PUBLIC BUILDINGS

National Export Exposition, Philadelphia, Pa. (1899).  
Pennsylvania State Capitol, Harrisburg, Pa.  
State, War and Navy Building, Washington, D. C.  
United States Mint, Philadelphia, Pa.  
United States Post Office, New Orleans, La.



SWITCHBOARD, UNITED STATES MINT, PHILADELPHIA, PA.

Mr. Edwin S. Church, Engineer. It consists of eighteen panels of Pink Tennessee Marble, four for generators, two for lighting circuits, and the balance for power distribution. Current is distributed from two sets of bus bars.

## SCHOOLS and COLLEGES

College of Physicians, Philadelphia, Pa.  
Girard College, Philadelphia, Pa.  
Society of Redemptorist Fathers, Esopus, N. Y.  
University of Pennsylvania, Philadelphia, Pa.



## TELEPHONE SYSTEMS

Baldwin Locomotive Works, Philadelphia, Pa.  
Mr. Samuel T. Bodine, Villa Nova, Pa.  
Seminary Buildings, Esopus, N. Y.  
Schutte and Koerting Company, Philadelphia, Pa.



LAYING CONDUITS FOR UNDERGROUND CABLES

Showing concrete base on which the terra cotta conduits rest to prevent sagging at the joints.

## UNDERGROUND CONSTRUCTION

Mr. H. A. Berwind, Radnor, Pa.  
Girls House of Refuge, Darlington, Pa.  
Jacob Tome Institute, Port Deposit, Md.  
Mr. Percival Roberts, Jr., Narberth, Pa.  
University of Pennsylvania, Philadelphia, Pa.





